PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2003-005343

(43)Date of publication of application : 08.01.2003

(51)Int.Cl. G03F 1/00
B41J 5/30
G03F 3/10
G06F 3/12
G06T 11/60
H04N 1/387

(21)Application number : 2001-187235

(22)Date of filing : 20.06.2001

(71)Applicant : FUJI XEROX CO LTD

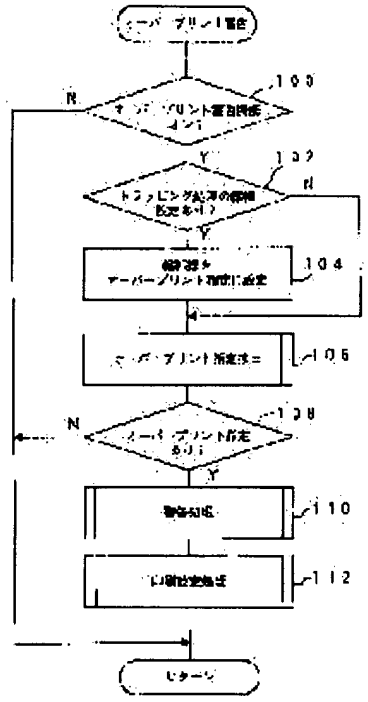
(72)Inventor : KODAMA MARI
ISHIZUKA RYUICHI
NISHIDE YASUSHI

(54) IMAGE PROCESSOR

(57)Abstract:

PROBLEM TO BE SOLVED: To easily and precisely judge the presence or absence of an image or the image specified as an overprint.

SOLUTION: In the case an overprinting alarm function is set, the image specified as the overprint is detected and extracted by a print server (steps 100 to 104). Then, when the image specified as the overprint is detected, the alarm is given to a client terminal, and also, the image processing and printing processing of the corresponding image are set so as to clear up the corresponding image (steps 106 to 112). Then, the image specified as the overprint is precisely judged on the printed material outputted from a printer.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer.So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3.In the drawings, any words are not translated.

CLAIMS

[Claim(s)]
[Claim 1] The image processing system carry out containing a detection means to be the image processing system which carries out an image processing based on the drawing instruction or image data inputted from an image-processing terminal, and to detect whether it is set up as overprint on application from the aforementioned drawing instruction or the aforementioned image data, and a notice means to notify of overprint specification based on the detection result of the aforementioned detection means as the feature.
[Claim 2] The image processing system according to claim 1 characterized by including an extraction means to extract the picture by which the aforementioned overprint specification is made, and a setting means to set up image transformation so that it may become clear when the processing output of the picture extracted by the aforementioned extraction means is carried out.
[Claim 3] The image processing system according to claim 2 characterized by setting up so that the aforementioned setting means may add the border line of a predetermined color along with the profile of the picture extracted by the aforementioned extraction means.
[Claim 4] The image processing system according to claim 3 characterized by setting the aforementioned border line as the color set up beforehand.
[Claim 5] The image processing system according to claim 3 characterized by setting the aforementioned border line as the color specified with the aforementioned image-processing terminal.
[Claim 6] The image processing system according to claim 2 with which the aforementioned setting means is characterized by setting up so that the picture extracted by the aforementioned extraction means may be changed into a predetermined color.
[Claim 7] The image processing system according to claim 6 characterized by setting the conversion color of the aforementioned picture as the color set up beforehand.
[Claim 8] The image processing system according to claim 6 characterized by setting the conversion color of the aforementioned picture as the color specified from the aforementioned image-processing terminal.
[Claim 9] The image processing system according to claim 2 characterized by setting up so that the aforementioned setting means may eliminate the picture extracted by the aforementioned extraction means from the aforementioned image data.
[Claim 10] The image processing system according to claim 2 characterized by setting up so that the aforementioned setting means may generate the image data of only the picture extracted by the aforementioned extraction means at least.
[Claim 11] An image processing system given in any of a claim 1 to the claim 10 characterized by including the display-control means which the aforementioned notice means sends out to the aforementioned image-processing terminal possible [a display of a warning message] they are.
[Claim 12] The image processing system according to claim 11 characterized by the aforementioned display-control means displaying the input request of processing specification to the picture detected by the aforementioned detection means on the aforementioned image-processing terminal.
[Claim 13] The image processing system according to claim 11 or 12 characterized by the aforementioned display-control means enabling the display of the printout picture according to the aforementioned image data on the aforementioned image-processing terminal.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by th use of this translation.

1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[The technical field to which invention belongs] this invention relates to the image processing system which performs an image processing based on the image data and drawing instruction by which various application creation was carried out.
[0002]
[Description of the Prior Art] DTP(Desktop Publishing)-ization has permeated as digitization in the field of printing processing. On processors, such as a personal computer and a workstation, by performing creation of a picture, processing, edit, etc., DTP creates a page layout, creates the film for exposing the printing version based on this page layout, or is directly written in (CEPS) and the printing version, and creates the lithographic plate for printing (CPT:Computer to Plate).
[0003] On the other hand, in DTP, when proofreading in advance of printing using the actual lithographic plate etc., the printout of the pictures, such as a page layout displayed on the monitor, can be carried out with printout equipments, such as a LASER beam printer and a page printer, using a WYSIWYG function etc.
[0004] By the way, specification of the overprint which piles up an up-and-down picture in the application which performs color printing and is used for DTP is possible by piling up the picture which each color of CMYK decomposed in each color in printing using the lithographic plate. The reason for performing such overprint specification prevents that the white crevice into the boundary portion of a picture for expansion and contraction of the paper at the time of printing or printing aim gap is generated around [boundary] a picture, when pictures overlap.
[0005] If the picture has lapped up and down, as for the picture outputted from a printer on the other hand, it is common that the upper picture knocks out a lower picture and is printed. For this reason, results may differ in the printed matter using the lithographic plate, and the printed matter outputted from a printer.
[0006] For this reason, in order to check the overprint specification on application, while creating the decomposition picture of each color of CMYK, outputting the decomposition picture of each color component by monochrome printing, having to check by viewing and skill being needed, the proofreading work of a page layout is done the complicated thing.
[0007] On the other hand, although the printer in which the simulation of the overprint of each color picture is possible exists like the printed matter using the lithographic plate, the possible printer of such processing has the problem of taking time before it is expensive and carrying out a printout.
[0008] on the other hand, although the check of overprint is proposed in JP,2000-352813,A, only the overprint by the lap of a black print (the K-th edition) and other colors can be checked -- in addition, it is necessary to use a comparatively expensive printer
[0009]
[Problem(s) to be Solved by the Invention] this invention is made in view of the above-mentioned fact, and it aims at proposing the image processing system which can check overprint specification easily and exactly.
[0010]
[Means for Solving the Problem] It carries out containing a detection means detect whether this invention is an image processing system which carries out an image processing based on the drawing instruction or image data inputted from an image-processing terminal, and is set up as overprint on application from the aforementioned drawing instruction or the aforementioned image data in order to attain the above-mentioned purpose, and a notice means notify overprint specification based on the detection result of the aforementioned detection means as the feature.
[0011] According to this invention, a detection means detects a picture with overprint specification from a drawing instruction or image data. A notice means will notify of there being the picture, if the picture in which overprint

specification has a detection means is detected.
[0012] Thereby, when distinction of the existence of overprint specification is difficult on the printed matter outputted from printout equipments, such as a display on a monitor, and a printer, it can judge clearly whether overprint specification is made. Moreover, since it is the easy composition of having established the detection means and the notice means, overprint can be easily judged by the low cost.
[0013] It is more desirable to include an extraction means to extract the picture by which the aforementioned overprint specification is made as such this invention, and a setting means to set up image transformation so that it may become clear when the processing output of the picture extracted by the aforementioned extraction means is carried out.
[0014] Thereby, the picture used as overprint can be exactly judged on processing outputs, such as a printout based on image data.
[0015] As such a setting means, the border line of a predetermined color may be added along with the profile of the picture extracted by the aforementioned extraction means, and the picture extracted by the aforementioned extraction means may be changed into a predetermined color. At this time, a conversion color or the color of a border line may be a color set up beforehand, and may be specified from an image-processing terminal.
[0016] Moreover, it may set up so that the picture extracted by the aforementioned extraction means may be eliminated as a setting means, and you may set up so that the image data of only the picture extracted by the aforementioned extraction means at least may be generated conversely.
[0017] That is, you may set up so that a setting means may carry out the printout of the printed matter for warning. At this time, it may set up so that a printout may be carried out together with a drawing instruction and the usual printed matter based on image data, and thereby, the picture by which overprint specification is carried out can be checked by looking clearly and certainly.
[0018] Moreover, it is more desirable to include the display-control means which the aforementioned warning means sends out to the aforementioned image-processing terminal possible [a display of a warning message] as this invention. It is more desirable that it is what displays the input request of processing specification to the picture detected by the aforementioned detection means on the aforementioned image-processing terminal as a display-control means at this time, and it may enable the display of the printout picture according to the aforementioned image data on the aforementioned image-processing terminal.
[0019]
[Embodiments of the Invention] Hereafter, the gestalt of this invention field operation is explained. The outline composition of the printing system 10 applied to the gestalt of this operation is shown in drawing 1 . This printing system 10 is equipped with the print server 12 which added and constituted the PCI board which equipped the personal computer (PC) of general composition with the predetermined function. Moreover, the printout of the picture which the printer 14 was connected to this print server 12 as printout equipment, and was processed by the print server 12 is possible.
[0020] Furthermore, the personal computer, the workstation, etc. are connected to the print server 12 as a client terminal 16. This client terminal 16 is used for DTP which performs image processings, such as creation of a picture, processing, and edit, using various applications. An image processing system 12 performs the printout of a picture according to the printing job by inputting the drawing instruction and image data from the client terminal 16 of ****** as a printing job.
[0021] In addition, as a printing system 10, two or more sets of printers 14 may be connected to a print server 12, and two or more client terminals 16 may be connected to a print server 12 through networks, such as LAN and WAN.
[0022] External memory, such as ROM, RAM, and HD, is prepared, and the print server 12 used for the gestalt of this operation operates by the operation rating program memorized to ROM, and has the general composition of performing processing to a system chart form, an image, a character, or a table, based on the program memorized by ROM or external memory.
[0023] Such a print server 12 is equipped with display devices, such as input devices, such as a keyboard and a mouse (all are illustration abbreviations), and a CRT display. Moreover, also in a print server 12, the printing processing to the display image of a display device is possible.
[0024] The bidirectional interface 18 and the print controllers 20, such as Ethernet (registered trademark) (Ethernet (registered trademark)), were formed in the print server 12, and the print controller 20 has connected with a printer 14 through the bidirectional interface 18. Moreover, a network interface 22 is formed in a print server 12, and a drawing instruction is inputted into it as a printing job with an image file from the client terminal 16 through this network interface 22.
[0025] On the other hand, the image processing system 36 which applied this invention is formed in the print server 12. This image processing system 36 is equipped with the image-processing section 24, and generates raster data based on

the drawing instruction and image data which are inputted as a printing job. The printed matter based on image data is obtained by this raster data's being controlled by the print controller 20, and outputting it to a printer 14.
[0026] Using the various applications for [, such as Photoshop, Illustrator (all are the tradenames of U.S. Adobe Systems), and QuarkXPress (tradename of the U.S. quark company),] various kinds of DTP, the client terminal 16 performs image processings, such as creation of a picture, processing, and edit, and creates image data, such as a page layout, (it explains as a "page layout" below).
[0027] In this example, the page layout created with this client terminal 16 is used for creation of the film used for exposure of the printing version by the color photoelectric-process system (CEPS), and exposure of the printing version in direct platemaking (CPT). Printing processing is made by the lithographic plate created based on this page layout.
[0028] In DTP, in advance of the creation of a lithographic plate based on the page layout, the proof which creates the printed matter for proofreading (it considers as a "proof" below) called color proof etc. is performed, and a page layout is proofread from this proof.
[0029] When performing this proof, image data, such as a page layout, is outputted to a print server 12 as a printing job with a drawing instruction from the client terminal 16. In addition, the page layout inputted from the client terminal 16 may be YMCK form, and you may be RBG form, and these may be intermingled further. In the image-processing section 24, the raster data of each color of Y, M, C, and K are generated from this page layout, and it outputs to a printer 14.
[0030] By the way, as for the image processing system 36 currently formed in the print server 12, the printing functional setting section 26 is formed. In this printing functional setting section 26, a setup of the printing function on the drawing instruction of a printing job is read, and the printing function when performing an image processing and printing processing is set up. In addition, a setup of this printing function may use not only a setup on a printing job but a setup which the print server 12 extracted the application name which created the printing job, was beforehand set up based on this extraction result, and has memorized as standards setting.
[0031] On the other hand, as shown in drawing 2 , the lower picture 54 is knocked out by the page layout created using application at the client terminal 16, and there are some which are in the state where the upper picture 56 was inserted in the portion in it. In order to fill the crevice between pictures 54 and 56 at this time, a setup of the spread processing which extends the border line of a picture 56 in application, and trapping processings, such as choke processing which narrows the KO field of a lower picture, is possible. Moreover, even if trapping processing is set up, there are some which do not actually draw a trap portion in a part of [, such as QuarkXPress,] applications.
[0032] In the printing functional setting section 26, if the line breadth of the border line 58 with which the trap portion between pictures 54 and 56 is buried is set up when the lower picture 54 is knocked out and the picture 56 is inserted in this KO portion, it is possible to consider that this border line 58 is the overprint on an overprint warning function.
[0033] Moreover, as shown in drawing 1 , the overprint detecting element 28 is formed in the image processing system 36. This overprint detecting element 28 detects whether overprint specification is made by which picture from for example, a drawing instruction or image data.
[0034] That is, in the overprint detecting element 28, as shown, for example in drawing 3 (A), when the upper picture 50 and the lower picture 52 have lapped on the page layout, it detects whether the up-and-down pictures 50 and 52 have lapped or it is specified that it inserts the upper picture 50 in the portion by which the lower picture 52 was knocked out.
[0035] On the other hand, the warning section 30 and the warning image-processing section 32 are formed in the image processing system 36 of a print server 12 so that it may be shown drawing 1. The warning section 30 will notify of the purport which has overprint specification to the client terminal 16 which outputted the printing job, if the picture from which overprint specification is made by the overprint detecting element 28 is detected.
[0036] It is made to display a predetermined warning message in the warning section 30 on the monitor which the client terminal 16 does not illustrate using the display-control means 34 at this time. Moreover, it is made for the display-control section 34 to display the screen which requires the selection of processing to overprint specification.
[0037] The warning image-processing section 32 performs predetermined processing to the picture by which the overprint specification detected by the overprint detecting element 28 is made. This processing will be changed into picture 50A which ******(ed) this picture in aposematic coloration or arbitrary setting colors, such as a Magenta, if overprint specification of the picture 50 of the top of the pictures 50 and 52 which lap up and down is carried out as shown in drawing 3 (B).
[0038] Moreover, in the warning image-processing section 32, it is possible to set the printout which printed the lower picture 52, and the printout which eliminated the upper picture 50 as the circumference of the upper picture 50. that is, it is based on the printer 14 based on image data -- usually -- the printout (for example, picture shown in drawing 3

(A)) of a passage -- in addition, as a warning page, as are shown in drawing 3 (C), and shown in the printed matter which eliminated the picture 50, or drawing 3 (D), the printout of printed matter which extracted the picture 50 is set up

[0039] Moreover, as shown in drawing 3 (E), a setup which borders with the warning image-processing section 32 the border line 60 which met the profile of a picture 50 in aposematic coloration or a specification color is also possible. In addition, to the border line 58 in trapping processing, it sets up so that it may change into aposematic coloration or arbitrary setting colors like the border line 60 of a picture 50.

[0040] In the image-processing section 24, image transformation (generation of raster data) etc. is processed based on a setup of the warning image-processing section 32. In addition, the image-processing section 24 can apply well-known arbitrary composition conventionally, and omits detailed explanation with the gestalt of this operation.

[0041] Here, the processing to the overprint warning function in a print server 12 is explained. It will be started, if the printing job outputted from the client terminal 16 is received and printing processing to this printing job is performed, and this flow chart shown in drawing 4 checks whether the overprint warning function is set up at the first step 100. If the overprint warning function is set up at this time, it will check whether an affirmation judging is carried out at Step 100, and it shifts to Step 120, and is set up with the specific application with which the printing job is set up beforehand, and the line breadth of the border line 58 for trapping processing is set up at this time.

[0042] When the line breadth of the border line 58 for trapping processing is specified here, an affirmation judging is carried out at Step 102, and it sets up so that the border line 58 added at the time of trapping processing may be detected as a picture by which overprint specification is carried out. That is, it sets up so that it may detect as a picture on which the border line 58 is overprinted.

[0043] Thus, if an overprint warning function is set up, it will shift to Step 106 and overprint detection and extraction of an overprint picture will be performed. When the line breadth of the border line 58 at the time of trapping processing is set up at this time, this border line 58 is also detected as a picture by which overprint specification was carried out. Detection of this overprint and detection of a border line 58 can use conventionally well-known arbitrary composition, such as description for example, on a drawing instruction.

[0044] At the following step 108, it checks whether the picture by which overprint specification is carried out has been detected. Here, if the picture by which overprint specification is carried out is detected, an affirmation judging will be carried out at Step 108, and Steps 110 and 112 will be performed.

[0045] The outline of the warning process to overprint specification and a printing setup (equivalent to Steps 110 and 112 of drawing 4) is shown in drawing 5 .

[0046] It will be in the state where the overprint warning function was set up, this flow chart is the first step 120, if the picture by which overprint specification is carried out is detected, an affirmation judging will be carried out, and will be performed and will shift to Step 122.

[0047] The dialog of the warning message which notifies of the picture by which overprint specification is carried out being on the monitor which the client terminal 16 which transmitted the printing job does not illustrate is expressed as this step 122.

[0048] An example of the dialog of this warning message is shown in drawing 6 . The selection menu of whether to continue printing processing with a warning message is displayed, and this dialog requires the input of the processing specification based on this selection menu. Moreover, specification of the preview display from this dialog is possible.

[0049] If processing specification is inputted from the client terminal 16, in the flow chart shown in drawing 5 , it will shift to Step 124 and the inputted processing specification will be read. Then, at Step 126, it checks whether the preview display of the corresponding page layout (printing page) is specified.

[0050] When the preview display is specified at this time, an affirmation judging is carried out at Step 126, it shifts to Step 128, image transformation for a preview is performed, and a preview picture is displayed on the monitor of the client terminal 16 (Step 130). In addition, when performing this preview display, it is made to display that the picture used as overprint becomes clear.

[0051] On the other hand, if the preview display is not specified or the processing specification which a preview display is completed and is inputted is read, a negative judging will be carried out at Step 126, and it will shift to Step 132. At this step 132, it checks first whether printing processing is stopped.

[0052] Here, when the stop of printing processing is set up, an affirmation judging is carried out at Step 132, it shifts to Step 134, and the stop of printing processing is set up. Thereby, the existence of the picture by which overprint specification is carried out on the page layout can be judged exactly, without carrying out a printout.

[0053] On the other hand, when continuation of printing processing is specified, a negative judging is carried out at Step 132, and it shifts to Step 136. The dialog which requires the input of a detailed setup of processing is expressed as this step 136 on the monitor of the client terminal 16.

[0054] An example of this dialog is shown in drawing 7 . Color conversion of a picture, grant of a border line 60 ("a border line 60" shall contain "a border line 58" below), the printout of a warning message of the processing to the picture by which overprint specification is carried out, etc. have become possible, and it requires which input of processing specification. Moreover, when color conversion of a picture or grant of a border line 60 is chosen, specification of arbitrary colors is possible, using the aposematic coloration (for example, Magenta) set up beforehand.
[0055] Here, if specification of printing processing is inputted based on a dialog, in the flow chart of drawing 5 , processing specification will be read at Step 138 and it will check whether color conversion of a picture is specified at the following step 140. Moreover, at Step 142, it checks whether addition of a border line 60 is specified.
[0056] Thereby, when color conversion of a picture is specified, an affirmation judging is carried out at Step 140, and it shifts to Step 144. At this step 144, it sets up so that a printout may be changed and carried out to the color which set up the color changed from the read processing specification, and set up the corresponding picture.
[0057] A printout is changed and carried out to a predetermined color so that the picture by which overprint specification is carried out may become clear from a printer 14 by this (refer to drawing 3 (B)).
[0058] Moreover, when grant of a border line 60 is specified (it is an affirmation judging at a negative judging and Step 142 in Step 140), it sets up so that it may shift to Step 146, the color of a border line 60 may be set up from the read processing specification and the border line 60 of predetermined width of face and a color may be printed around the corresponding picture.
[0059] It is bordered by the border line 60 so that the picture by which overprint specification is carried out may become clear by this at the printed matter outputted from a printer 14 (refer to drawing 3 (E)). In addition, since it becomes the same setup at Step 144 and Step 146 to the border line 58 of trapping processing, you may make it delete specification of color conversion of a picture in a dialog.
[0060] On the other hand, when the printout of a warning page is specified, a negative judging is carried out at Steps 140 and 142, and it shifts to Step 148. At this step 148, it checks whether it is set up so that the printout of the picture which serves as overprint as a warning page may be extracted and carried out, or the printout of the picture used as overprint is deleted and carried out.
[0061] Here, when the extraction of a picture by which overprint specification is carried out is specified, it shifts to Step 150, and it sets up so that the picture by which overprint specification is carried out may be extracted as a warning page and the printout only of the corresponding picture may be carried out.
[0062] The printout of the warning page (refer to drawing 3 (D)) which extracted by this the picture by which overprint specification is carried out from the printer 14 is carried out. In addition, it carries out by doubling the usual printout based on the printing job at this time.
[0063] On the other hand, when elimination of a picture by which overprint specification is carried out is specified, it shifts to Step 152. At this step 152, it sets up so that it may carry out a printout, using as a warning page the page layout which deleted the picture by which overprint specification is carried out as a warning page.
[0064] Thereby, the printout of the usual printing page based on the page layout and the warning page which eliminated the picture by which overprint specification is carried out can be carried out.
[0065] Thus, when the picture by which overprint specification is carried out is detected, a printout is carried out so that the corresponding picture may become clear, and warning may be emitted or it may become clear. The output of the printed matter with which the picture which does not need to use the expensive printer in which a simulation is possible, and serves as overprint simply in the output of a printing machine by this becomes clear is attained, and proper proofreading can be performed easily.
[0066] In addition, although the form of this operation explained that a warning message and processing specification were displayed separately, you may be made to perform processing specification with a warning message in one dialog. The display of a dialog shown in drawing 8 in this case can be used. In this dialog, the selection menu of processing specification is displayed with a warning message. The color conversion and the color of a picture which correspond in this processing specification on the assumption that printing processing is continued, grant and the color of a border line 60, printing of a warning message, and specification [which / of **] are possible. Moreover, when specifying the printout of a warning message, specification of whether it is made what eliminated the corresponding picture as a warning page, or to make it what was extracted is possible.
[0067] In addition, although the above explanation required the input of the processing specification to the picture by which overprint specification is carried out Not only in this, for example, when the picture by which overprint specification is carried out is detected It sets up beforehand whether color conversion is performed to the corresponding picture, a border line 60 is given, or a warning page is printed, and when you detect the picture by which overprint specification is carried out, only suppose that it is to notify the client terminal 16 by the dialog etc.
[0068] Moreover, the dialog shown in drawing 8 from drawing 6 can show an example, and the display of arbitrary

composition can be used for the input request of an alarm display and processing specification. In addition, the warning when detecting the picture by which overprint specification is carried out can apply arbitrary methods, if it is made for the picture which corresponds not only the display of a up to [the monitor of the client terminal 16] but on printed matter to become clear.

[0069] Furthermore, although the form of this operation explained to the print server 12 with the application of the image processing system of this invention this invention is not what is restricted to this. the image processing system of this invention To for example, the middle server arranged between two or more client terminals 16, a print server, or a print You may prepare as an image processing system processed based on the image data inputted from a client terminal. Moreover, it may prepare on a network with the client terminal 16, and you may use as an image processing system which performs predetermined processing to the image data inputted from a client terminal.

[0070]

[Effect of the Invention] In order to emit warning according to this invention so that the corresponding picture may become clear when overprint specification was carried out and the picture become detects as having explained above, the outstanding effect become that it is possible in the check of the existence of a picture [specify / overprint / check or / easily / are a low cost and / in the picture by which overprint specification is carried out] etc. is acquired.

[Translation done.]

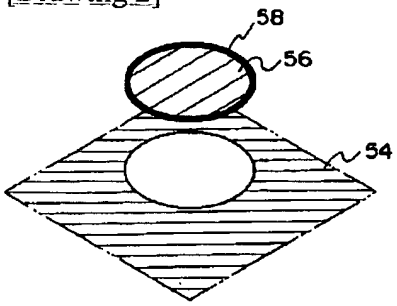
* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

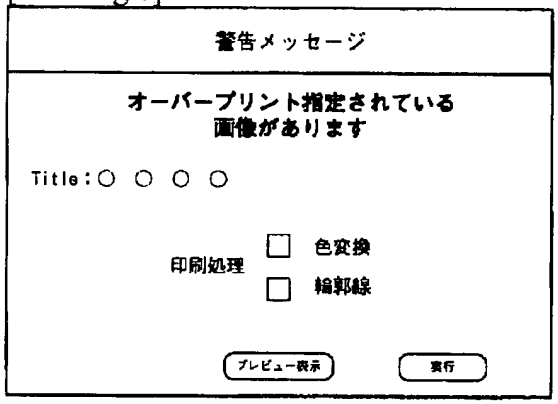
1.This document has been translated by computer. So the translation may not reflect the original precisely.
2.**** shows the word which can not be translated.
3.In the drawings, any words are not translated.

DRAWINGS

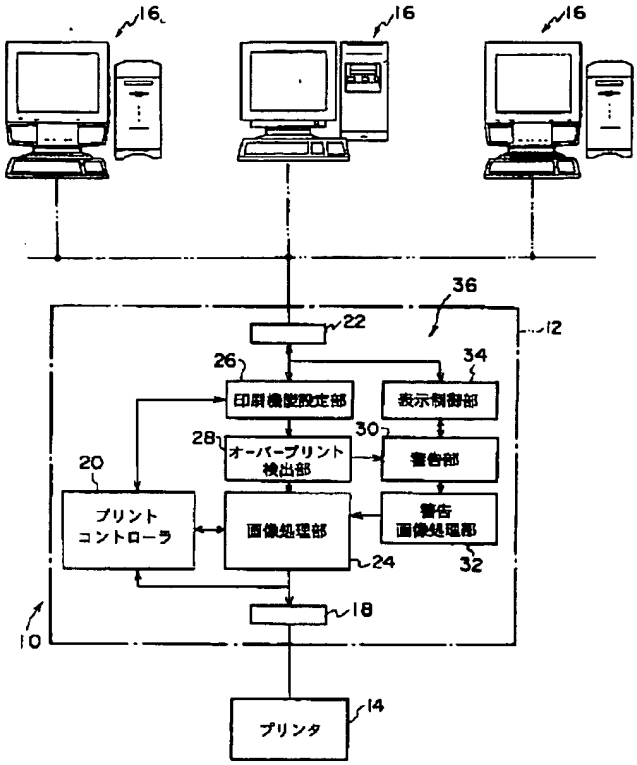
[Drawing 2]



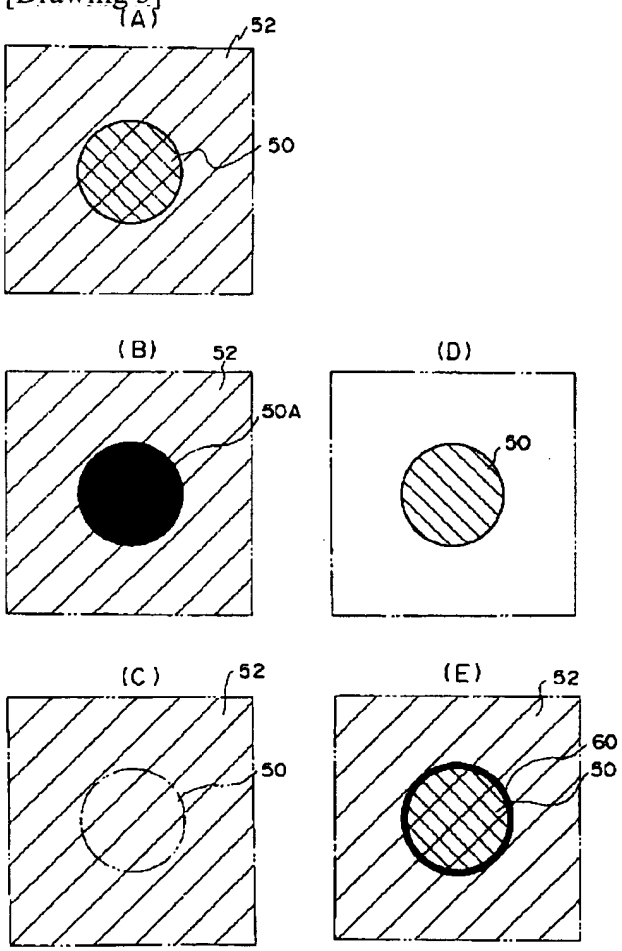
[Drawing 6]



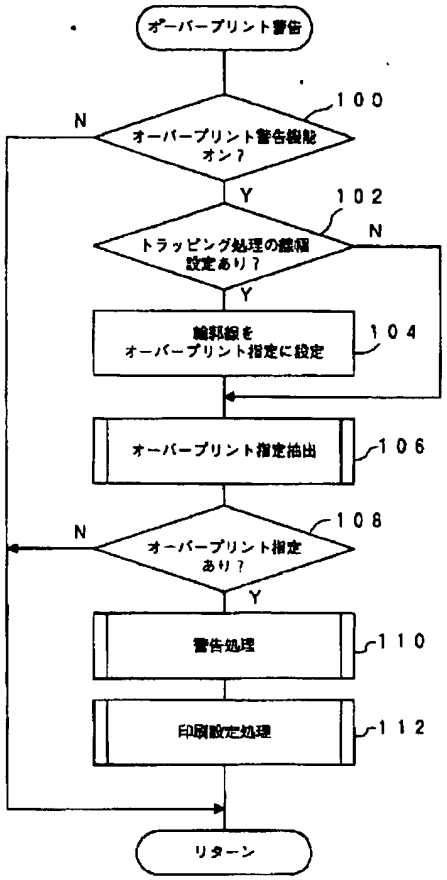
[Drawing 1]



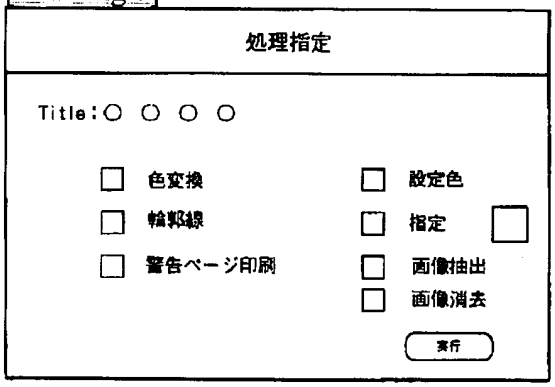
[Drawing 3]



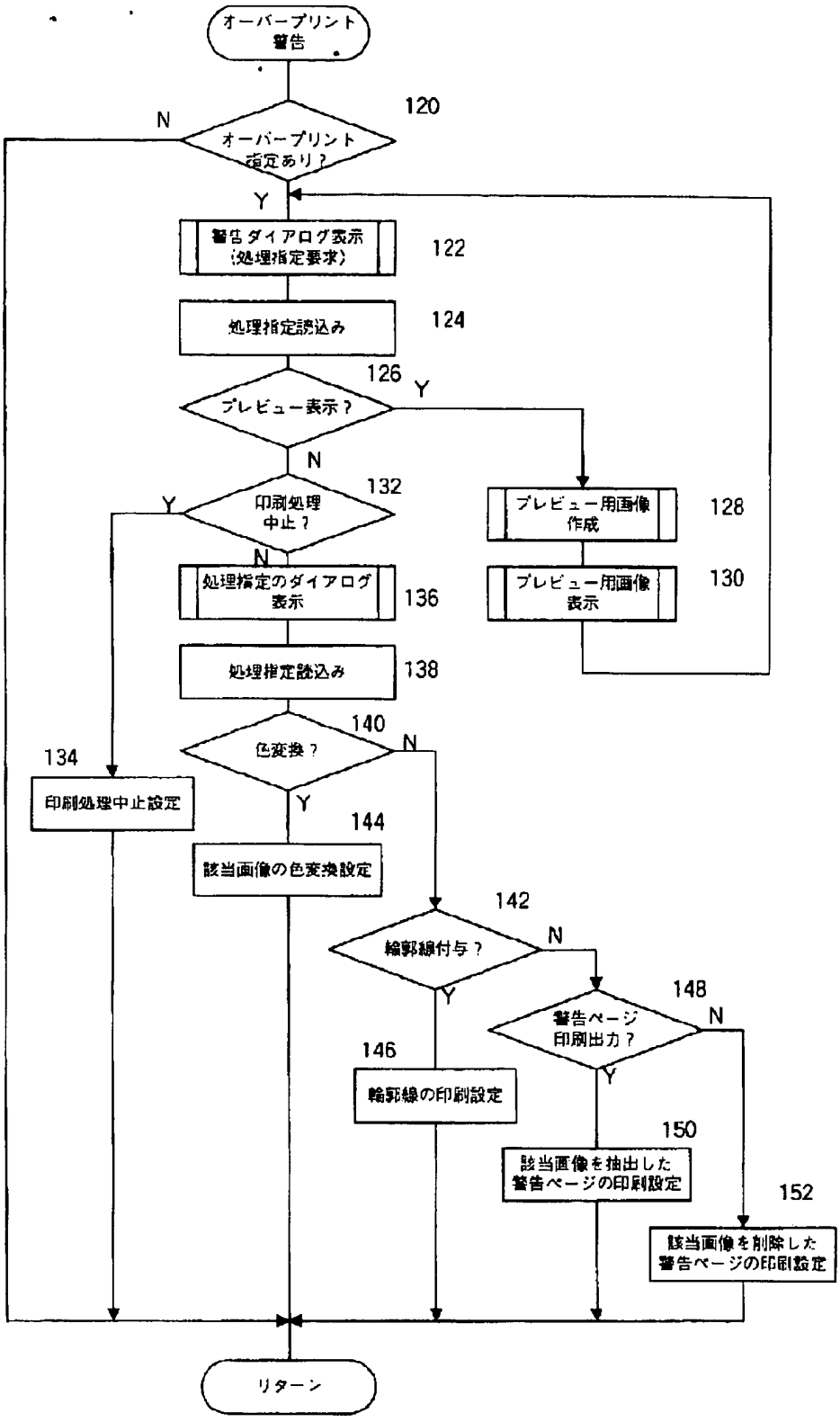
[Drawing 4]



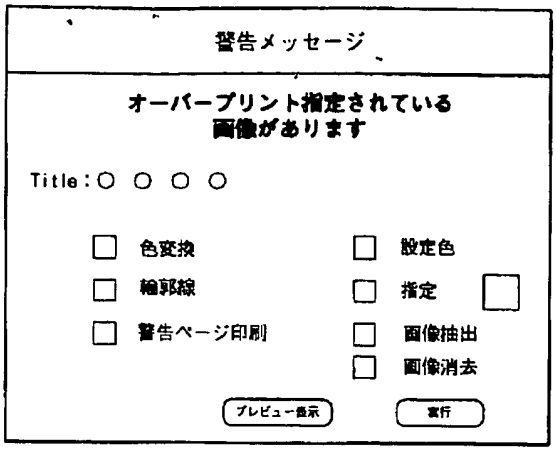
[Drawing 7]



[Drawing 5]


オーバープリント警告
120
オーバープリント指定あり？
N
Y
警告ダイアログ表示(処理指定要求)
122
処理指定読込み
124
126
プレビュー表示？
Y
N
132
印刷処理中止？
Y
N
プレビュー用画像作成
128
プレビュー用画像表示
130
処理指定のダイアログ表示
136
処理指定読込み
138
140
色変換？
N
Y
134
印刷処理中止設定
144
該当画像の色変換設定
142
輪郭線付与？
N
Y
148
警告ページ印刷出力？
N
Y
146
輪郭線の印刷設定
150
該当画像を抽出した警告ページの印刷設定
152
該当画像を削除した警告ページの印刷設定
リターン

[Drawing 8]



[Translation done.]